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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/543,084	01/26/2006	Julien Meissonnier	03762.015900	1166	
74432 Fitzpatrick Cel	7590 02/19/2010 la (Catalent))	EXAMINER		
1290 Avenue of the Americas			SHEIKH, HUMERA N		
New York, NY 10104-3800			ART UNIT	PAPER NUMBER	
			1615		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/543,084 MEISSONNIER ET AL.

0661 4-41 0	1					
Office Action Summary	Examiner	Art Unit				
	Humera N. Sheikh	1615				
The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence ac	ddress			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SSI (6) MONTHS from the mailing date of the communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the soir or reshorded period for reply will. by statute Any reply received by the Office later than three months after the mailing samed patent term adjustment. See 37 (FR 1.7046).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on <u>30 O</u>						
,	action is non-final.					
3) Since this application is in condition for allowar			e merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4:	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) 1-9 and 15 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>10-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)□ All b)□ Some * c)⊠ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority document	s have been received.					
Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(c) (FTO/SS/CE) Paper No(s)/Mail Date 12/15/08;1/30/09;2/10/09;10/30/09.	5) Notice of Informal F	Signi Application				

DETAILED ACTION

Status of the Application

Receipt of the Response to Restriction/Election Requirement filed 10/30/09 and the Information Disclosure Statements (IDS) filed 12/15/08, 01/30/09, 02/10/09 and 10/30/09 is acknowledged.

Applicant's election of Group II (claims 10-14) and Election of Species of: (1) lipophilic vehicle – (h) silicone oil, simethicones and (2) coating – (a) celluloses – ethylcellulose, hydroxyethylcellulose, hydroxyethylcellulose, hydroxypropylmethylcellulose acetate in the reply filed on 30 October 2009 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Also note that the Election of species was required for Group I only and not Groups II and III.

Claims 1-9 and 15 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 10/30/09.

Claims 1-15 are pending in this action. Claims 1-9 and 15 have been withdrawn. Claims 10-14 have been examined in this action. Claims 10-14 are rejected.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/15/08, 01/30/09, 02/10/09 and 10/30/09 is acknowledged. The submission is in compliance with the provisions of 37

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CFR 1.97. Accordingly, the information disclosure statement is being considered by the

examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Claim 10 recites, "wherein said lipophilic vehicle has a solubilizing power for the active

substance of less than 1.5 times the active substance concentration for which a taste is detected in

water". It is unclear as to what the limitation "for which a taste is detected in water" is intended

to mean. The language presented is relative and the metes and bounds of the limitation cannot be

properly ascertained. If Applicant is referring to masking of bitter taste of drug, then the claim

should be presented to read so. Clarification is requested.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hutchinson et al. (hereinafter "Hutchinson") (U.S. Pat. No. 5,817,323).

Hutchinson ('323) teaches soft gelatin capsule shell compositions. The compositions comprise as the shell material, gelatin (18-30%), plasticizer (30 to 45%), such as glycerol, and a further component compatible with the gelatin, such as unbleached starch acetate, another starch derivative, starch itself or mixtures thereof, whereby the further component is normally no more than 12% (see column 1, lines 1-59); (col. 2, lines 17-30). The chewability of the compositions can be enhanced by inclusion of an oil (i.e., coconut oil). Oil disperses within the shell structure as microscopic droplets (col. 2, lines 31-46). Suitable hydrophobic solvent/carrier media

components are discussed at column 5, lines 32-42). Hutchinson teaches that where the encapsulated contents include particles in suspension, the particles may be separately coated, typically with suitably sweetened or flavored coatings. Such a coating can serve as either or both of a taste-masking agent and a stabilizer in the suspension (col. 5, lines 61-67).

With respect to the amounts/ranges of the ingredients in claim 13 (i.e., gelatin, plasticizer, etc.), the amounts and ranges disclosed by Ebert meet and/or overlap with the amounts/ranges as instantly claimed. In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facte case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990). Moreover, the Examiner points out that generally, differences in concentration will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

While the references do not explicitly teach that the lipophilic vehicle has a "solubilizing power for the active substance of less than 1.5 times the active substance concentration for which a taste is detected in water", the Hutchinson reference, nonetheless teaches active substances embedded within a fill composition that is comprised of the same components, namely, hydrophobic (lipophilic) components and recognizes that their drug particles can be coated for taste-masking purposes and stabilization of the suspensions. The solubility characteristics or solubilization power would be expected to be similar if not the same based on incorporation of the same ingredients under similar conditions, absent a showing of evidence to the contrary.

Moreover, it would be well within the purview of the skilled artisan at the time the invention was made to adjust the solubilizing power or solubility characteristics by routine or manipulative experimentation during the capsule formulation process.

The instant invention when taken as a whole, would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, given the teachings of Hutchinson

Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Douglas et al. (hereinafter "Douglas") (U.S. Pat. No. 5,635,200) in view of Hutchinson et al. (hereinafter "Hutchinson") (U.S. Pat. No. 5,817,323).

Douglas (*200) teaches chewable soft gelatin capsules comprising (a) a dispersion of lipid coated particles of ranitidine or an acceptable salt thereof in a non-aqueous vehicle; (b) particles comprising ranitidine or an acceptable salt thereof incorporated into a core and coated with a lipid coating; c) lipid coated particles in the form of ranitidine which is poorly soluble in water (see Abstract); (col. 2, lines 8-24).

. The bitter taste may be masked by coating the drug substance with a suitable lipid (col. 1, lines 50-67). The pharmaceutical composition can be in the form of chewable soft gelatin capsules (col. 6, lines 39-45).

Douglas does not teach the shell components (gelatin, plasticizer, starch) in the amounts claimed.

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Hutchinson ('323) teaches soft gelatin capsule shell compositions. The compositions comprise gelatin (18-30%), plasticizer (30 to 45%), such as glycerol, and a further component compatible with the gelatin, such as unbleached starch acetate, another starch derivative, starch itself or mixtures thereof, whereby the further component is normally no more than 12% (see column 1, lines 1-59); (col. 2, lines 17-30). The chewability of the compositions can be enhanced by inclusion of an oil (i.e., coconut oil) and plasticizers. Oil disperses within the shell structure as microscopic droplets (col. 2, lines 17-46). Suitable hydrophobic solvent/carrier media components are discussed at column 5, lines 32-42). Hutchinson teaches that where the encapsulated contents include particles in suspension, the particles may be separately coated, typically with suitably sweetened or flavored coatings. Such a coating can serve as either or both of a taste-masking agent and a stabilizer in the suspension (col. 5, lines 61-67).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the shell components (gelatin, plasticizer, starch) in the amounts as claimed by Hutchinson within the capsules of Douglas. One would do so with a reasonable expectation of success because Hutchinson explicitly teaches that the chewability of the capsules can be enhanced by inclusion of an oily component and plasticizers and teaches that their drug particles may be separately coated, typically with suitably sweetened or flavored coatings, in order to provide for taste-masking effects as well as to impart stability to the capsule composition. Based on the modification of Douglas by Hutchinson, the expected result would yield an improved soft chewable capsule having enhanced stability and taste-masking effects.

With respect to the amounts/ranges of the ingredients in claim 13 (i.e., gelatin, plasticizer, etc.), the amounts and ranges disclosed by Hutchinson meet and/or overlap with the

amounts/ranges as instantly claimed. In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990). Moreover, the Examiner points out that generally, differences in concentration will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

While the references do not explicitly teach that the lipophilic vehicle has a "solubilizing power for the active substance of less than 1.5 times the active substance concentration for which a taste is detected in water", the Hutchinson reference, nonetheless teaches active substances embedded within a fill composition that is comprised of the same components, namely, hydrophobic (lipophilic) components and recognizes that their drug particles can be coated for taste-masking purposes and stabilization of the suspensions. The solubility characteristics or solubilization power would be expected to be similar if not the same based on incorporation of the same ingredients under similar conditions, absent a showing of evidence to the contrary. Moreover, it would be well within the purview of the skilled artisan at the time the invention was made to adjust the solubilizing power or solubility characteristics by routine or manipulative experimentation during the capsule formulation process.

Hence, the instant invention when taken as a whole, would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, given the combined teachings of Douglas and Hutchinson.

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Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebert et al. (hereinafter "Ebert") (U.S. Pat. No. 4,532,126) in view of Hutchinson et al. (hereinafter "Hutchinson") (U.S. Pat. No. 5,817,323).

Ebert ('126) teaches a chewable, filled, one-piece soft elastic gelatin (SEG) capsule and method for its manufacture, wherein the SEG capsule is formed from a formulation of gelatin (about 10-90 % by wt.), water (about 5-40 % by wt.), a plasticizer (e.g., sorbitol) and a masticatory substance and taste modifiers (about 0-10 % by wt.). The gelatin is present in the shell and incorporates a fill material contained within the shell, whereby the fill material may be selected from a variety of materials including candy, confectionaries, antacids, cough and cold preparations, sore throat remedies, antiseptics and dental preparations, such as fluorides, breath fresheners and the like. Conventional SEG capsules comprising gelatin have a bloom value of about 150-200, although this value may be varied (see Abstract); (column 1, line 60 – col. 2, line 68).

In manufacturing the SEG capsules, a molten gel mass is prepared with a dispersion of a molten masticatory substance therein. A suitable fill material is also prepared. The gelatin formulation containing the masticatory substance dispersed therein is formed as a shell around the fill material. The capsules are dried until the desired chewing characteristics are attained (Abstract); (col. 2, lines 46-53).

Suitable taste modifiers or flavorings added to the fill composition, the gelatin composition or in both simultaneously and can be selected from cherry syrup, citric acid, Application/Control Number: 10/543,084

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dextrose, essential oil (i.e., clove, lemon, orange, peppermint, spearmint), ethyl vanillin, glucose, honey, mannitol, methyl salicylate, raspberry syrup, saccharin, saccharin sodium, sorbitol, sucrose, wild cherry syrup and mixtures thereof (col. 4, lines 13-26). The gelatin capsules are formed into any desired shape, color and size (col. 4, lines 35-42).

With respect to the amounts/ranges of the ingredients in claim 13 (i.e., gelatin, plasticizer, etc.), the amounts and ranges disclosed by Ebert meet and/or overlap with the amounts/ranges as instantly claimed. In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990). Moreover, the Examiner points out that generally, differences in concentration will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Ebert does not teach coated crystals or granules of active agent in a lipophilic vehicle.

Hutchinson ('323) teaches soft gelatin capsule shell compositions. The compositions comprise gelatin (18-30%), plasticizer (30 to 45%), such as glycerol, and a further component compatible with the gelatin, such as unbleached starch acetate, another starch derivative, starch itself or mixtures thereof, whereby the further component is normally no more than 12% (see column 1, lines 1-59); (col. 2, lines 17-30). The chewability of the compositions can be enhanced by inclusion of an oil (i.e., coconut oil). Oil disperses within the shell structure as microscopic droplets (col. 2, lines 31-46). Suitable hydrophobic solvent/carrier media

components are discussed at column 5, lines 32-42). Hutchinson teaches that where the encapsulated contents include particles in suspension, the particles may be separately coated, typically with suitably sweetened or flavored coatings. Such a coating can serve as either or both of a taste-masking agent and a stabilizer in the suspension (col. 5, lines 61-67).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the coated drug particles that are provided in a hydrophobic (lipophilic) vehicle as taught by Hutchinson within the capsules of Ebert. One would do so with a reasonable expectation of success because Hutchinson explicitly teaches that the chewability of the capsules can be enhanced by inclusion of an oily component and teaches that their drug particles may be separately coated, typically with suitably sweetened or flavored coatings, in order to provide for taste-masking effects as well as to impart stability to the capsule composition. In addition, Ebert discloses a gelatin capsule comprising gelatin, water and tastemodifiers or flavorings, whereby the capsule comprises a fill material containing various ingredients, including medicaments, candies and confectionaries. The reference recognizes the importance of avoiding unpleasant taste upon breakage of the capsule shell in order to release the fill components. The avoidance of unpleasant taste is particularly significant for fill components comprising medicaments or therapeutic agents, which generally are known to exhibit poor taste. Based on the modification of Ebert by Hutchinson, the expected result would yield an improved soft chewable capsule having enhanced stability and taste-masking effects.

While the references do not explicitly teach that the lipophilic vehicle has a "solubilizing power for the active substance of less than 1.5 times the active substance concentration for which a taste is detected in water", the Hutchinson reference, nonetheless teaches active substances

embedded within a fill composition that is comprised of the same components, namely,

hydrophobic (lipophilic) components and recognizes that their drug particles can be coated for

taste-masking purposes and stabilization of the suspensions. The solubility characteristics or

solubilization power would be expected to be similar if not the same based on incorporation of

the same ingredients under similar conditions, absent a showing of evidence to the contrary.

Moreover, it would be well within the purview of the skilled artisan at the time the invention was

made to adjust the solubilizing power or solubility characteristics by routine or manipulative

experimentation during the capsule formulation process.

obvious to one of ordinary skill in the art at the time the invention was made, given the combined

Hence, the instant invention when taken as a whole, would have been prima facie

teachings of Ebert and Hutchinson.

Conclusion

-- No claims are allowed at this time.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Humera N. Sheikh whose telephone number is (571) 272-0604.

The examiner can normally be reached on Monday-Friday during regular business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert A. Wax, can be reached on (571) 272-0623. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

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system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Humera N. Sheikh/

Primary Examiner, Art Unit 1615

hns

February 16, 2010